SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Soppet, Daniel R
 Yi, Li
 Rosen, Craig A
 Ruben, Steven
- (ii) TITLE OF INVENTION: G-Protein Parathyroid Hormone receptor HLTDG74
- (iii) NUMBER OF SEQUENCES: 8
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Human Genome Sciences, Inc.
 - (B) STREET: 9410 Key West Ave
 - (C) CITY: Rockville
 - (D) STATE: MD
 - (E) COUNTRY: USA
 - (F) ZIP: 20850
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
- (vi) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/468,011
 - (B) FILING DATE: 06-JUN-1995
 - (C) CLASSIFICATION:
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: A. Anders Brookes
 - (B) REGISTRATION NUMBER: 36,373
 - (C) REFERENCE/DOCKET NUMBER: PF201D1
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 201-994-1700
 - (B) TELEFAX: 201-994-1744
- (2) INFORMATION FOR SEQ ID NO:1:

	(i)	(<i>I</i>	A) LE B) TY C) ST	ENGTI (PE : FRANI	i: 20 nucl	CTERI 003 k leic ESS: line	ase ació sino	pair 1	cs							
	(ii)	MOI	LECUI	LE TY	PE:	CDNA	A									
	(ix)		4) NA	AME/I		CDS 90	. 1712	2								
	(xi)	SEQ	QUENC	CE DI	ESCR	IPTIC	ON: S	SEQ 1	ED NO	0:1:						
GTT	rgcto	CTG (GCA	GCCA/	AG T	rggc <i>i</i>	TAT	r gg <i>i</i>	AAGC'.	TTTT	TCC	GGC'	rcr (GAGO	SAGGGT	60
CCC	rgctt	rct 1	rcct?	ACAGO	CC G	TTCCC	GGC			TGG Trp						113
						ATG Met 15										161
						ACC Thr										209
						CAA Gln										• 257
						TGT Cys										305
						GGG Gly										353
						CAT His 95										401
						TTT Phe										449

497

AAT TAT TCA GAC TGC CTT CGC TTT CTG CAG CCA GAT ATC AGC ATA GGA

Asn	Туг	Ser	Asp	Cys 125	Leu	Arg	Phe	Leu	Gln 130	Pro	Asp	Ile	Ser	Ile 135	Gly	
		GAA Glu														545
		TCT Ser 155														593
_		CGA Arg		_												641
		TTC Phe														689
		GCT Ala														737
		CCA Pro														785
		GGG Gly 235														833
		TAT Tyr														881
		GTG Val														929
		GGC Gly														977
		GCA Ala														1025
		AAG Lys 315														1073

				AAT Asn 335					1121
				GGG Gly					1169
				GTC Val					1217
				CCT Pro					1265
				CTC Leu					1313
				TAC Tyr 415					1361
				TGG Trp					1409
				AGA Arg					1457
				TCA Ser					1505
TTA Leu				CCA Pro					1553
				ATG Met 495					1601
				AGG Arg				 	 1649
		Ile		GAG Glu					1697

CCA GAC ACT		GACAAGGAG AA	AACTGAGGA TO	STTCTCTGA AT	rggacatgt	1752
GTGGCTGACT	TTCATGGGCT	GGTCCAATGG	CTGGTTGTGT	GAGAGGGCTT	GGCTGATACT	1812
CCTATGCTTG	AGCACAAAGG	CTGAAAATTC	AGTTAAGGTG	ТТАСТТААТА	ATAGTTTTTA	1872
GGCTCCATGA	ATTGGCTCCT	GTAAATACTA	ACGACATGAA	AATGCAAGTG	TCAATGGAGT	1932
AGTTTATTAC	CTTCTATTGG	CATCAAGTTT	TCCTCTAAAT	TAATGTATGG	TATTTGCTCT	1992
GTGATTGTTC	A					2003

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(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 541 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Ala Trp Leu Gly Ala Ser Leu His Val Trp Gly Trp Leu Met Leu 1 5 10 15

Gly Ser Cys Leu Leu Ala Arg Ala Gln Leu Asp Ser Asp Gly Thr Ile 20 25 30

Thr Ile Glu Glu Gln Ile Val Leu Val Leu Lys Ala Lys Val Gln Cys 35 40 45

Glu Leu Asn Ile Thr Ala Gln Leu Gln Glu Gly Glu Gly Asn Cys Phe 50 55 60

Pro Glu Trp Asp Gly Leu Ile Cys Trp Pro Arg Gly Thr Val Gly Lys 65 70 75 80

Ile Ser Ala Val Pro Cys Pro Pro Tyr Ile Tyr Asp Phe Asn His Lys 85 90 95

Gly Val Ala Phe Arg His Cys Asn Pro Asn Gly Thr Trp Asp Phe Met
100 105 110

His Ser Leu Asn Lys Thr Trp Ala Asn Tyr Ser Asp Cys Leu Arg Phe 115 120 125

Leu Gln Pro Asp Ile Ser Ile Gly Lys Gln Glu Phe Cys Glu Arg Leu 135 Tyr Val Met Tyr Thr Val Gly Tyr Ser Ile Ser Phe Gly Ser Leu Ala 150 Val Ala Ile Leu Ile Ile Gly Tyr Phe Arg Arg Leu His Cys Thr Arg 165 170 Asn Tyr Ile His Met His Leu Phe Val Ser Phe Met Leu Arg Ala Thr 180 185 Ser Ile Phe Val Lys Asp Arg Val Val His Ala His Ile Gly Val Lys 200 Glu Leu Glu Ser Leu Ile Met Gln Asp Asp Pro Gln Asn Ser Ile Glu 215 Ala Thr Ser Val Asp Lys Ser Gln Tyr Ile Gly Cys Lys Ile Ala Val 225 230 Val Met Phe Ile Tyr Phe Leu Ala Thr Asn Tyr Tyr Trp Ile Leu Val 245 250 Glu Gly Leu Tyr Leu His Asn Leu Ile Phe Val Ala Phe Phe Ser Asp 265 Thr Lys Tyr Leu Trp Gly Phe Ile Leu Ile Gly Trp Gly Phe Pro Ala 275 280 285 Ala Phe Val Ala Ala Trp Ala Val Ala Arg Ala Thr Leu Ala Asp Ala 290 295 Arg Cys Trp Glu Leu Ser Ala Gly Asp Ile Lys Trp Ile Tyr Gln Ala Pro Ile Leu Ala Ala Ile Gly Leu Asn Phe Ile Leu Phe Leu Asn Thr 325 330 Val Arg Val Leu Ala Thr Lys Ile Trp Glu Thr Asn Ala Val Gly His 340 Asp Thr Arg Lys Gln Tyr Arg Lys Leu Ala Lys Ser Thr Leu Val Leu 355 360 365 Val Leu Val Phe Gly Val His Tyr Ile Val Phe Val Cys Leu Pro His 375 Ser Phe Thr Gly Leu Gly Trp Glu Ile Arg Met His Cys Glu Leu Phe 385 390 395 400 Phe Asn Ser Phe Gln Gly Phe Phe Val Ser Ile Ile Tyr Cys Tyr Cys 405 415

Asn Gly Glu Val Gln Ala Glu Val Lys Lys Met Trp Ser Arg Trp Asn 420 425 430

Leu Ser Val Asp Trp Lys Arg Thr Pro Pro Cys Gly Ser Arg Arg Cys 435 440 445

Gly Ser Val Leu Thr Thr Val Thr His Ser Thr Ser Ser Gln Ser Gln 450 455 460

Val Ala Ala Ala His Ala Trp Cys Leu Ser Leu Ala Lys Leu Pro Arg 465 470 475 480

Ser Pro Ala Asp Ser Leu Thr Ala Thr Ser Leu Tyr Leu Ala Met Ser 485 490 495

Gly Val Thr Gln Ser Arg Thr Ala Ser His Thr Leu Ser Thr Arg Ser 500 505 510

Asn Lys Glu Asp Ser Gly Arg Gln Arg Asp Asp Ile Leu Met Glu Lys 515 520 525

Pro Ser Arg Pro Met Glu Ser Asn Pro Asp Thr Glu Gly 530 540

- (2) INFORMATION FOR SEQ ID NO:3:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CAGCCGTCCC GGGCTTGGCC TGG

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- (2) INFORMATION FOR SEQ ID NO:4:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 27 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
CCTCAGTGTC GACTTGTCAT CCTTCAG	27
(2) INFORMATION FOR SEQ ID NO:5:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 27 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: not relevant(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	27
	21
 (2) INFORMATION FOR SEQ ID NO:6: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
CAGTTTCTAG ATGTCATCCT TCAGTGTC	28
(2) INFORMATION FOR SEQ ID NO:7:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: not relevant (D) TOPOLOGY: linear 	

(ii)	MOLECULE	TYPE:	DNA	(genomic)
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(xi)	SEQUENCE	DESCRIPT	rion: Si	EQ ID	NO:7:
TCCTACCC	G GCCGCC	ATCA TGG	CCTGGCT	GGGGG	GCCT

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- (2) INFORMATION FOR SEQ ID NO:8:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
 CAGTTTCTAG ATGTCATCCT TCAGTGTC

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